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Validation of nearest neighbor classifiers

Bax, E.
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This paper appears in: **Information Theory, IEEE Transactions on**

Abstract:
This article presents a method to bound the out-of-sample error rate of a **nearest neighbor** classifier. The bound is based only on the examples that comprise the classifier. Thus all available examples can be used in the classifier; no examples need to be withheld to compute error bounds. The estimate used in the bound is an extension of the holdout estimate. The difference in error rates between the holdout classifier and the classifier consisting of all available examples is estimated using truncated inclusion and exclusion

Index Terms:
error statistics   image classification   **learning (artificial intelligence)**   error bounds   holdout classifier   holdout estimate   **machine learning**   **nearest neighbor** classifiers   out-of-sample error rate bound   satellite images   truncated exclusion   truncated inclusion

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